

ODP-81-1093
19 August 1981

MEMORANDUM FOR: Chairman, Publications Review Board

THROUGH : Chief, Systems Programming Division
Deputy Director for Processing, ODP
Director of Data Processing
Deputy Director for Administration

STAT FROM :
Systems Programming Division, ODP

SUBJECT : Request to Give a Presentation

1. I request permission to give a presentation describing how computer access controls may be applied to different types of systems.

STAT 2. When approved, I intend to speak at the Conference in during the week of August 23rd. The audience is expected to be comprised of about 400 persons from the United States and Canada representing organizations running similar computer systems.

3. None of the material to be presented is classified or controversial. I will discuss the technical aspects of adapting a well-known computer software package that is used with batch-oriented computing system resources to control access to timesharing systems. The problems that would be encountered during such an effort will be described in detail.

4. I am not under cover and will be identified as an Agency employee. I will also give the standard disclaimer that the views expressed are my own and not necessarily those of the Agency.

/signed/

SUBJECT: Request to Give a Presentation

STAT

AUTHOR'S NAME:

TITLE OF PRESENTATION: VM Security Needs and Concerns

I have reviewed the outline in paragraph 3 of this request, to the best of my knowledge have found it to be unclassified, and approve it for presentation.

/s/ Bruce T. Johnson

Bruce T. Johnson, D/ODP

21 AUG 1981

Date

/s/ William N. Hart

for Harry E. Fitzwater, DDA

21 AUG 1981

Date

STAT

ODP/P/SPD/ISB/ 08-19-81/PRBREQ9

Distribution:

Original - addressee
5 - Chronos
2 - DDA

ACF2 Support in a VM Environment Enhanced Support for Batch Services

- I - Optimally Offer the Full ACF Command in VM/CMS**
 - 1 Use Service Virtual Machine for Data Base Access**
 - 2 Use Virtual Machine Communication Facility VMCF**
 - 3 Implies Common Data Base and Logonids**
- II - Provide Access to Sequential Backup Copy of ACF2 Data**
 - 1 Allow Rule Test and Development**
 - 2 Create A Batch Job to Update Data Base via RSCS**
 - 3 Implies Common Data Backup and Logonids**
 - 4 Eliminates Service Virtual, but can Expose Rules**
- III - Provide Interactive Job Submission Facility**
 - 1 Simulates TSO Commands but Builds Batch Jobs via RSCS**
 - 2 Requires Networking or Enhanced VM RSCS**
 - 3 Slowest Least Desirable Implementation**
 - 4 Eliminates Service Virtual, no DASD Sharing**

ACF2 Support in a VM Environment Support for VM - Logon and CMS Disks

- I - Optimally Offer the Full ACF Support in VM/CMS**
 - 1 Use Service Virtual Machine for Data Base Access**
 - 2 Use Virtual Machine Communication Facility VMCF**
 - 3 Implies Common Data Base and Logonids**
 - 4 Replaces Logon, Link and Access**
- II - Requires Changes to CP, in Addition to CMS**
 - 1 Will Require Significient Changes to Startup Processing**
 - 2 Could be Patterned After Cornell Mini Disk Manager**
 - 3 Could be Implemented to Only Replace Link and Access**
 - 4 Reduces System Overhead, and Simplifies Startup**

ACF2 Support in a VM Environment Support for VM Access to OS Disks

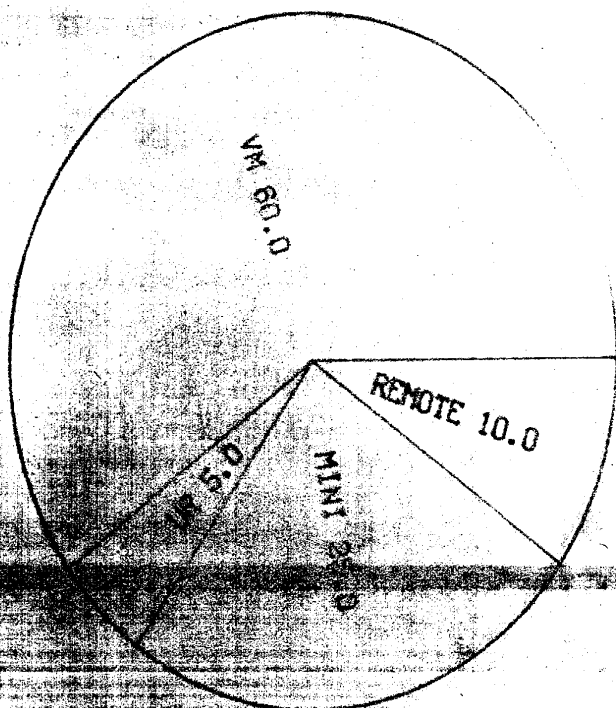
- I - Optimally Offer the Full ACF Support in VM/CMS**
 - 1 Use Service Virtual Machine for Data Base Access**
 - 2 Use Virtual Machine Communication Facility VMCF**
 - 3 Implies Common Data Base and Logonids**
 - 4 Implies Very High Overhead - Every SIO**
- II - Provide Access to OS Disks but Limit Use and Position**
 - 1 Allow Access on Volume Basis**
 - 2 Allow Access but Limit Data Sets to Cyllinders**
 - 3 Restrict Data Set Types and Force Single Volume**
 - 4 Reduces System Overhead, but Limits Coverage**

CPYRGHT

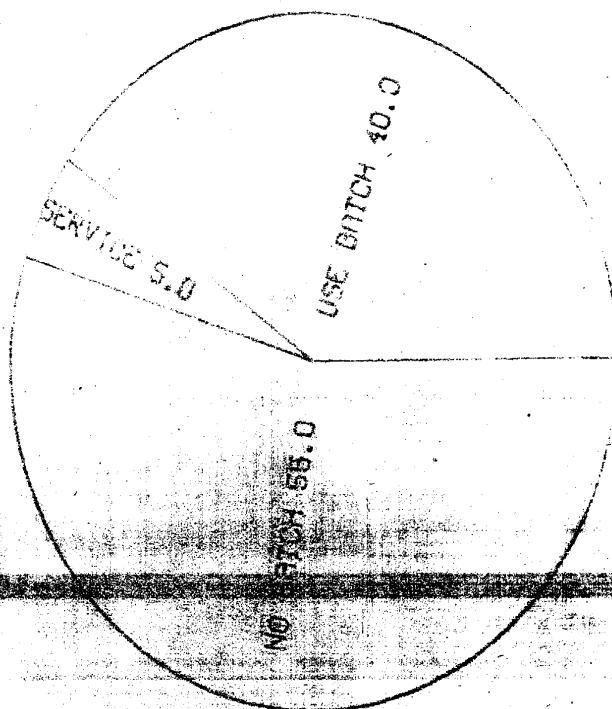
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00-0015-1006-4

JOB ORIGINS percent of jobs



VM BATCH USAGE percent of users



Visual Products Division/3A
St. Paul, MN 55101
Made in US

Approved For Release 2003/11/05 : CIA-RDP84-00933R000100260004-1

VM/ACF2 IN AN MVS ENVIRONMENT

I - Introduction

- 1 Introduce self**
- 2 Agency disclaimer**

II - Environment discription

- 1 Ruffing Center**
- 2 Each machine**
- 3 Workload demographics**

III - ACF2 Support in a VM Environment

- 1 Enhanced Support for Batch Services**
- 2 Support for VM Access TO OS Disks**
- 3 Support for VM - Logon and CMS Disks**

Unclassified

ACF2 USER EXPERIENCE

[redacted]
Central Intelligence Agency
Washington, DC 20505
[redacted]

STAT

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Foil 1

Unclassified

Unclassified

Installation History

May 1980	ACF2 used to validate accounting data required local modification to jes3 - user exit 29
January 1981	ACF2 used for access controls modification to VM/SP RSCS to supply JOBFROM information, and JES3 to accept JOBFROM information
March 1981	ACF2 selective abort mode by office
June 1981	ACF2 inhouse user training
through	developed execs to interface VM users to ACF2
STORRULE	batch, LISTRULE, TESTRULE, COMPRULE, and
August 1981	ACF2/TMS automatic foreign tape protection

Foil 2

Unclassified

Current Systems

- Central timesharing on a 3033MP running VM
- ~~Special application on a dedicated 158UP running VM~~
- ~~Prototype database system on 4331-1s running VM~~
- ^{3033 class} Eight mainframes running MVS/JES3
- ~~470/V8 - pure batch/backup~~
- ~~3033up - DATABASE(GIMS) - limited batch~~
- ~~168 - ONLINE TP information retrieval~~
- ~~168 - DATABASE(GIMS) - backup GLOBAL~~
- ~~168 - GLOBAL(JES3)~~
- ~~470/V6 - DATABASE(GIMS) standalone JES3 GLOBAL~~
- ~~158ap - batch - backup GLOBAL~~
- ~~470/V6 - ONLINES-CICS, JES3 GLOBAL~~
- MVS represents Four-fifths of aggregate computing power

*Changes
requested
by D/OOD*
J

F014 3

Unclassified

ACF2 function planned for 1981-1982

- production job submission using protected logonids 9/12/81
- ACFLIBUP, ACFSUBIT service routines, new JES3 disk rdr mod
- enforcement of dataset naming conventions for new data 9/12/81
- develop VS1 capability under VM
- convert TMS catalog to proper dataset names 12/1/81
- develop auditing techniques for security officers

Foil 4

Unclassified